INTERNATIONAL SEARCH REPORT

International application No.

		PCT	/JP2004/012229
A. CLASSIFI Int.Cl	CATION OF SUBJECT MATTER 7 H04B3/58, H01F17/06, H05K9/		
According to In	ternational Patent Classification (IPC) or to both nation	onal classification and IPC	
B. FIELDS SI			
Minimum docum	mentation searched (classification system followed by	classification symbols)	
Int.CI	7 но4в3/54-3/58		
Documentation	searched other than minimum documentation to the ex Shinan Koho 1922–1996	stent that such documents are include	d in the fields searched
		Toroku Jitsuyo Shinan Kol Jitsuyo Shinan Toroku Kol	no 1994-2004 no 1996-2004
Electronic data t	pase consulted during the international search (name o		
		. , , , , , , , , , , , , , , , , , , ,	
			•
C. DOCUMEN	NTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where a	_	Relevant to claim No.
X	JP 62-147821 A (Mitsubishi	Electric Corp.),	1,3,10,11
Y	01 July, 1987 (01.07.87), Particularly, page 3, lower	wint and the second	2,4-7
	lines 2 to 20; Fig. 1	right column,	
.[*]	(Family: none)		0 \$ 0
Y	JP 07-123035 A (Nissin Elec	tric Co Itd \	
· I	12 May, 1995 (12.05.95),		2
	Particularly, Par. Nos. [001 (Family: none)	4], [0016]	
	(ramily: none)		
. х	JP 52-109815 A (Westinghouse	Electric Corp.),	12
Y	14 September, 1977 (14.09.77 Particularly, Fig. 5),	4,6
}		1058089 A	
	<u> </u>	·	
× Further doc	numents are listed in the continuation of Box C.	See patent family annex.	
	ories of cited documents: fining the general state of the art which is not considered	"I" later document published after the	e international filing date or priority pplication but cited to understand
to be of partic	cular relevance	the principle of theory underlying	the invention
tiling date	ation or patent but published on or after the international	considered novel of cannot be (the claimed invention cannot be considered to involve an inventive
cited to estab	ich may throw doubts on priority claim(s) or which is lish the publication date of another citation or other	step when the document is taken	alone
special reason	(as specified) erring to an oral disclosure, use, exhibition or other means	considered to involve an inven	live sten when the document is
"P" document pub	lished prior to the international filing date but later than	being obvious to a person skilled	
the priority da	te claimed	"&" document member of the same pa	tent family
Date of the actual	completion of the international search	Date of mailing of the international	search report
09 Nover	mber, 2004 (09.11.04)	30 November, 200	4 (22.11.04)
			•
	address of the ISA/	Authorized officer	·
Japanese	e Patent Office		
Facsimile No.		Telephone No.	<u> </u>
om PCI/ISA/210	(second sheet) (January 2004)		

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2004/012229

). DOCUMENTS CONSIDERED TO BE RELEVANT	- i	
Category	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim 1
Y	JP 08-223092 A (Toshiba Corp.), 30 August, 1996 (30.08.96), Particularly, Fig. 7; Par. No. [0005] (Family: none)		5,6
Y	JP 2003-134003 A (Matsushita Electric Works, Ltd.), 09 May, 2003 (09.05.03), Particularly, Par. No. [0003]; Figs. 11, 12 (Family: none)		5,6
Y	JP 09-284255 A (The Furukawa Electric Co., Ltd.), 31 October, 1997 (31.10.97), Particularly, Par. No. [0014] (Family: none)		6
Y	JP 11-284552 A (Mitsubishi Electric Corp.), 15 October, 1999 (15.10.99), Particularly, Par. No. [0025]; Fig. 2 (Family: none)		7
A	JP 11-331051 A (Anten Kabushiki Kaisha), 30 November, 1999 (30.11.99), Particularly, Par. No. [0004] (Family: none)		8,9
		•	
Ì	·	1	